**ABSTRACT**

This invention provides a rotary electric machine with a high productivity/maintainability.

Since the shaft portion 43 or the stepwise drawn portion is formed with a flat face 47 perpendicular to the rotational axis, when the magnetic poles 42 are bonded to the rotor 40, an accurate gap control can be achieved by applying a certain pressure to the magnetic poles with a jig or the like using the perpendicular flat face 47 as reference, or by controlling the distance from the perpendicular flat face 47.